

Dermal Worksheet  
 Intermediate Variables for Calculating DA(event)  
 The Dean Company

Chemical of Potential Concern	Medium	Dermal Absorption Fraction (soil)	FA	Kp		T(event)		Tau		T*		B
			Value	Value	Units	Value	Units	Value	Units	Value	Units	Value
phthalate	Groundwater	--	0.8	2.50E-002	cm/hour	0.58	hour/event	16.27	hour	39.05	hour	0.2
Chloroform	Groundwater	--	1	1.50E-001	cm/hour	0.58	hour/event	0.49	hour	1.18	hour	0
Heptachlor	Groundwater	--	0.8	8.70E-003	cm/hour	0.58	hour/event	12.99	hour	31.16	hour	0.1
Barium *	Groundwater	--	--	--	--	--	--	--	--	--	--	--
Manganese *	Groundwater	--	--	--	--	--	--	--	--	--	--	--
Thallium *	Groundwater	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD *	Soil	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDE *	Soil	--	--	--	--	--	--	--	--	--	--	--
4,4-DDT	Soil	0.03	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data
Aluminum *	Soil	--	--	--	--	--	--	--	--	--	--	--
Copper *	Soil	--	--	--	--	--	--	--	--	--	--	--
Iron *	Soil	--	--	--	--	--	--	--	--	--	--	--
Manganese *	Soil	--	--	--	--	--	--	--	--	--	--	--
Thallium *	Soil	--	--	--	--	--	--	--	--	--	--	--

FA = Fraction Absorbed Water

Kp = Dermal Permeability Coefficient of Compound in Water

\* = Dermal assessment not recommended based on RAGS Part E, Appendix B-3 screening table.

T(event) = Event Duration

Tau = Lag Time

T\* = Time to Reach Steady-State

B = Dimensionless Ratio of the Permeability Coefficient of a Compound Through the Stratum Corneum Relative to its Permeability Coefficient Across the Viable Epidermis